

CESSNA -172R THIELERT : PRE FLIGHT CHECKLIST PREPARATION

1.	Aircraft Documents*	Checked
2.	Weather	Suitable
3.	Baggage	Stowed
4.	Weight & C of G	Within Limits
5.	Navigation	Planned
6.	Navigation Equipment	On Board
7.	Performance & Range	Computed & Safe

*Documents to be Carried: C of R, C of A, ARC, CRS, Noise Certificate, Flight Crew license, JLB, Operations Manual, MEL, POH, Cockpit and Emergency Check List, Aeroplane search procedure checklist, G-1000 Cockpit Reference guide, Emergency and Safety Equipment Layout, Route guides, Area Map, Weight Schedule, Load and Trim Sheet.

Charter Operations: Air Operator's Permit & Passenger Manifest.

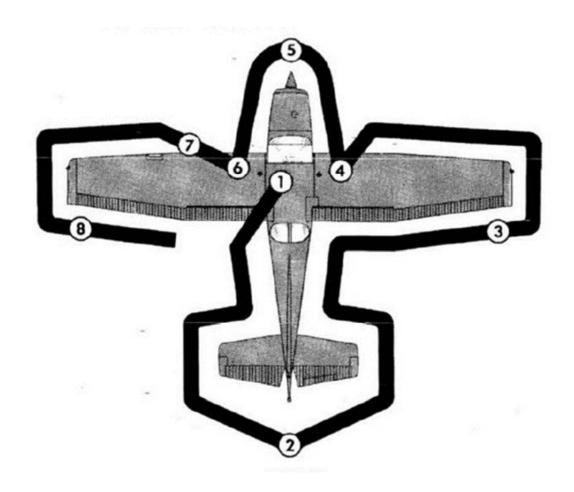
Around aircraft no fuel / oil spillage. Chocks & fire Extinguisher in position. Area behind aircraft & taxi path clear. Remove pitot cover.

CABIN

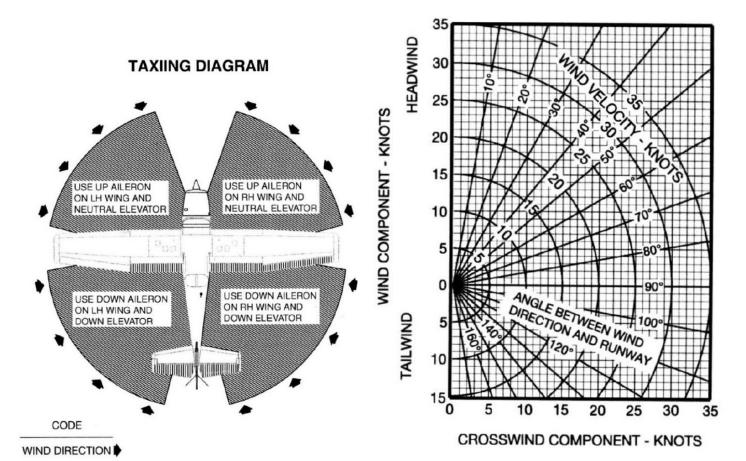
1. Pitot Cover	REMOVED
2. Control Wheel Lock	REMOVED
3. Parking Brake	SET
4. Engine Master	OFF
5. AVIONICS BUS 1&2	OFF
6. BATTERY Switch	ON
7. PFD	ON (Wait for PFD to Initialise)
8. FUEL QTY(L & R)	CHECK
9. LOW FUEL (L & R) Annunciators	OFF
10. LOW Vacuum Annunciator	ON
11. FUEL Temp	CHECK
12. "Water Level" LIGHT	OFF
13. Engine Hrs & Hobbs	NOTED
14. AVIONICS BUS 1	ON (Front Avionics Fan ON)
15. AVIONICS BUS 1	OFF
16. AVIONICS BUS 2	ON (Rear Avionics Fan ON)
17. AVIONICS BUS 2	OFF
18. Flaps	FULLY EXTENDED
19. PITOT Heat Switch	OFF
20. PITOT Heat Switch	ON for 30 secs then OFF
21. LOW Volts Annunciator	ON(Not Shown)
22. BATTERY Switch	OFF
23. ALT Static AIR Valve	OFF
24. Cabin Heat & Cabin Air.	OFF
25. Elevator Trim	Set for Take-Off
26. FUEL Selector Valve	BOTH
27. FUEL Shut-off Valve	PUSH FULL IN
28. Fire Extinguisher	CHECK Pointer in Green

*Chimes Aviation Academy *

CESSNA -172R THIELERT : PRE FLIGHT CHECKLIST



CROSSWIND COMPONENT





CESSNA -172R THIELERT : PRE FLIGHT CHECKLIST EXTERNAL CHECKS

EMPENNAGE

 2. 3. 4. 	Baggage Door	Check Locked Disconnect Check Freedom of Movement Check for Security Check for Security
	RIGHT WING Trailing Edge	
	Flap Aileron	Check for Security & Condition Check Freedom of Movement
	RIGHT WING	
9. 10. 11.	Wing Tie Down Right Tyre Fuel Drains Fuel Quantity Fuel Filler Cap	Disconnect Check Check Cut, Creep, Pressure Sample for Water & Sediments Check visually ≤ fuel filler marking Check Security, Vent Clear
	NOSE	
14. 15. 16. 17. 18. 19. 20. 21.	Reservoir Tank Drain Fuel Strainer Drain (Below Fuselage) Engine Air & Cooling Inlets Propeller & Spinner Air Filter Gearbox oil level Nosewheel Strut Nose Tyre Engine Oil Static Source	Sample for Water & Sediments Sample for Water & Sediments Clear of Obstructions Check for Cuts, Nicks, Security Check for Dust & Blockage Check Glass (Pale & Bubble) Strut 3.5", No leaks Check Cut, Creep, Pressure Check Dipstick (5-6 Litres) Check Clear
	LEFT WING	
24. 25. 26.	Fresh Air Inlet Fuel Quantity Fuel Filler Cap Fuel Drains Left Tyre	Check condition Check visually, ≤ fuel filler marking Check Security, Vent Clear Sample for Water & Sediments Check Cut, Creep, Pressure
	LEFT WING Leading Edge	
29. 30.	Fuel Vent	Check for Blockage Check for Blockage Disconnect Check for Security
	LEFT WING Trailing Edge	
32.	Aileron	Check Freedom of Movement

Check for Security & Condition

33. Flap



1. Pre-flight.	BE	FORE START	
2. Passenger Briefing. COMPLETE 2. Scats & Scat Belts. ADJUST & SECURE 4. Brakes. TEST & SET 5. Circuit Breakers. CHECK IN 6. Electrical Equipment. OFF 7. Avionics BUS 1 & BUS 2. OFF 8. Alternator. ON 9. St By Batt. TEST 20" Green Lt ON 10. St By Batt. TEST 20" Green Lt ON 11. BUS E Volts. Min 24 VOLTS 12. BUS M Volts. Below 1.5 VOLTS 13. BATT S Amps. CHECK -Ve Amps 14. St By Batt Annunciator SHOWN 15. Request START UP. Call ATC 16. HEADSET REMOVE 17. Propeller Area. CLEAR 18. Battery. ON 19. Beacon Light. ON 21. Fuel Selector Valve. BOTH 22. Alternator Air Door. CLOSED 24. Thrust Lever. Full & Free, IDLE 25. Load Display. Check 0% at Prop Rpm 26. Starters. ON 27. Starters. Prop OFF 28. Alternator Air Door. CLEAR 38. Engine Master. ON 39. Starters. ENGAGEGORPM 40. Starters. ENGAGEGORPM 40. Starters. ENGAGEGORPM 41. LOW VOLTS Annunciator. OFF 42. Alternator SHOWN 43. Alternator SHOWN 44. Remain Steel Starters of the Starters. ENGAGEGORPM 45. Starters. ENGAGEGORPM 46. Starters. ENGAGEGORPM 47. OIL Pressure. within 3 Sec MIN 1 BAR 48. Fuel Pump OFF 49. AMPS Batt M & Batt S. CHECK +Ve 40. Volts. GREEN 41. LOW VOLTS Annunciator. OFF 41. TEST. COMPLETE 42. FADEC Red LIGHTS OFF 43. Alternator Warning light. OFF 44. TEST. ON 45. Alternator Warning light. OFF 46. TEST. ON 46. Alternator ON 47. Regulations. BEST for TAKE-OFF 48. Alternator Warning light. OFF 49. TEST. COMPLETE 40. Avoincis BUS 1 & BUS 2. ON 41. Alternator Warning light. OFF 41. TEST. COMPLETE 40. Avoincis BUS 1 & BUS 2. ON 41. Alternator Warning light. OFF 42. FADEC Red LIGHTS OFF 43. TEST. COMPLETE 44. Alternator. ON 45. Alternator Warning light. OFF 46. TEST. ON PRESS, LIGHT OFF 47. FEDE & COTTA Execution. REMD Execution. RELEASE 48. AMPS Batt M & Batt S. CHECK +Ve 49. Alternator Warning light. OFF 41. TEST. ON PRESS, LIGHT OFF 40. TEST. ON PRESS, LIGHT OFF 41. TEST. COMPLETE 40. PROP Control Excited. RPM DEC 41. Test. Load Display. ON RPM INC 42. Alternator Warning light. OFF 43. ALTERNATION ON RPM INC 44. Alternator Warning light. OFF 45. TEST. ON PR	1.	Pre-flightCOMPLETE	20. FLAPSRETRACT FULLY
3. Seats & Seat Belts	_		21. LOW VOLTS AnnunciatorOFF
4. Brakes. TEST & SET 5. Circuit Breakers. CHECK IN 6. Electrical Equipment. OFF 7. Avionics BUS 1 & BUS 2. OFF 8. Alternator. ON 9. St By Batt. TEST 20° Green Lt ON 10. St By Batt. TEST 20° Green Lt ON 10. St By Batt. ARM Verify PFD ON 11. BUS E Volts. Min 24 VOLTS 12. BUS M Volts. Below 1.5 VOLTS 13. BATT S Amps. CHECK -Ve Amps 14. St By Batt Annunciator 15. Request START UP. Call ATC 16. HEADSET. REMOVE 17. Propeller Area CLEAR 18. Battery. ON 19. Beacon Light. ON 20. NAV Light. ON 21. Fuel Selector Valve. BOTH 22. Alternate Air Door. CLOSED 24. Thrust Lever. Full & Free, IDLE 25. Load Display. Check 0% at Prop Rpm ENGINE START (BATTERY ONLY) 1. Thrust Lever. Full & Free, IDLE 25. Load Display. Check 0% at Prop Rpm ENGINE START (BATTERY ONLY) 1. Thrust Lever. IDLE 26. Area Aircraft / Prop. CLEAR 37. Engine Master. ON 38. Starter. ENGAGE(500RPM) 39. OIL Pressure. within 3 See MIN 1 BAR 40. Starter. ENGAGE(500RPM) 41. LOW VOLTS Annunciator. OFF 42. AMPS Batt M & Batt S. CHECK +Ve 43. Alternator Warning light. OFF 44. TEST. COMPLETE 45. CED Test Knob. PRESS, LIGHT OFF 46. Atlorator Warning light. ON 47. Regulators. SET 48. AMPS Batt M & Batt S. CHECK +Ve 49. Alternator Warning light. ON 40. Alternator Warning light. ON 41. Alternator Warning light. ON 41. Alternator Warning light. ON 42. Alternator Warning light. ON 43. Alternator Warning light. ON 44. Alternator Warning light. ON 45. Alternator Warning light. ON 46. Alternator Warning light. ON 47. Regulators. SET 48. AMPS Batt M & Batt S. CHECK +Ve 49. Alternator Warning light. ON 40. Alternator Warning light. ON 41. Alternator Warning light. ON 42. Alternator Warning light. ON 43. Alternator Warning light. ON 44. Alternator Warning light. ON 45. Alternator Warning light. ON 46. Alternator Warning light. ON 47. Regulators. SET 48. AMPS Batt M & Batt S. CHECK +Ve 49. Alternator Warning light. ON 40. Alternator Warning light. ON	3.		22. COMM 02 Only
24. NAV Frequencies SET	4.		
6. Electrical Equipment. OFF 7. Avionics BUS 1 & BUS 2 OFF 7. Avionics BUS 2 OFF 8. Alternator ON 9. St By Batt. TEST 20' Green Lt ON 10. St By Batt. TEST 20' Green Lt ON 10. St By Batt. ARM Verify PFD ON 11. BUS E Volts. Min 24 VOLTS 12. BUS M Volts. Below 1.5 VOLTS 13. BATT S Amps. CHECK - Ve Amps 14. St By Batt Annunciator SHOWN 15. Request START UP Call ATC 16. HEADSET REMOVE 17. Propeller Area CLEAR 18. Battery. ON 19. Beacon Light. ON 19. Beacon Light. ON 20. NAV Light. ON 21. Fuel Selector Valve. BOTH 22. Fuel Shut Off Valve. Push Full IN 23. Alternate Air Door CLOSED 24. Thrust Lever. Full & Free, IDLE 25. Load Display. Check 0% at Prop Rpm 0 26. Glow Light. EXTINGUISHES 27. MENU Manual Brightness to 19' WARM UP 1. 890 RPM. 2Min 1400 RPM till. OT 50°C, CT 60°C 1. FAXI 1. Taxi Permission. RECEIVED 2. Altimeters(PFD Baro & St By)SET QNH 1. Taxi Landing light. ON 2. Fuel Shut Off Valve. Push Full IN 2. Fuel Shut Off Valve. Push Full IN 2. Alternate Air Door CLOSED 24. Thrust Lever. Full & Free, IDLE 25. Load Display. Check 0% at Prop Rpm 0 26. Starter. ENGAGE(500RPM) 27. MENU	5.		24. NAV FrequenciesSET
7. Avionics BUS 1 & BUS 2 OFF 8. Alternator ON 9. St By Batt	6.		25. MFDON, Dhana WPT SET
8. Alternator	7.		26. G1000FLIGHT PLAN as Req
9. St By Batt	8.	AlternatorON	27. MENUManual Brightness to 1%
10. St By Batt. ARM Verify PFD ON 11. BUS E Volts	9.	St By BattTEST 20" Green Lt ON	W/ADM/TID
11. BUS E Volts	10	. St By BattARM Verify PFD ON	
12. BUS M Volts. Below 1.5 VOLTS 13. BATT S Amps. CHECK -Ve Amps 14. St By Batt Annunciator SHOWN 15. Request START UP. Call ATC 16. HEADSET REMOVE 17. Propeller Area. CLEAR 18. Battery. ON 19. Beacon Light. ON 19. Beacon Light. ON 20. NAV Light. ON 21. Fuel Shut Off Valve. Push Full IN 23. Alternate Air Door. CLOSED 24. Thrust Lever. Full & Free, IDLE 25. Load Display. Check 0% at Prop Rpm 0 26. Area Aircraft / Prop. CLEAR 3. Engine Master. ON 4. Glow Light. EXTINGUISHES 5. Fuel Pump. ON 6. Starter. ENGAGE(500RPM) 7. OIL Pressure. within 3 Sec MIN I BAR 8. Fuel Pump. OFF 9. AMPS Batt M & Batt S. CHECK +Ve 10. Volts. GREEN 11. LOW VOLTS Annunciator. OFF 12. FADEC backup Battery test a. Alt OFF. ENG OP NORMAL b. Batt OFF 10 sec ENG OP NORMAL c. Battery. ON d. Alternator Warning light. OFF 14. TEST. COMPLETE 15. CED Test Knob. PRESS, LIGHT OFF 16. Avionics BUS 1 & BUS 2. ON 17. Regulators. SET 18. AMPS Batt M & Batt S. CHECK +Ve 19. Volts. SET 18. AMPS Batt M & Batt S. CHECK +Ve 19. Volts. GREEN 11. Taxi Permission. RECEIVED 2. Altimeters(PFD Baro & St By). SET QNH 1. Taxi Landing light. ON 2. Altimeters(PFD Baro & St By). SET Instruments. CHECK in TURNS 2. Altimeters(PFD Baro & St By). SET ON 3. Chocks. WAIVE OFF 4. Taxi, Landing light. ON 2. Natiguality Turn :- Compass & HIS Decrease / Increase in Hdg, A/H No Bank TSI Skidding Turn BEFORE TAKE-OFF 1. Taxi Landing light. OFF 1. Taxi Landing light. ON 2. Altimeters(PFD Baro & St By). SET 3. Scate & Seat Belts. ERECT & CORRECT 4. Cabin Doors. CLOSED & LocKED 4. Trim: Locker. OR 4. Glow Light. Wolts Instruments (PFD). No Red Xs 5. Flight Controls. FREE & CORRECT 4. Cabin Doors. CLOSED & LocKED 4. Taxi Landing light. ON 2. Natiguality Turn: Compass & HIS Decrease / Increase in Hdg, A/H No Bank TSI Skidding Turn BEFORE TAKE-OFF 1. Taxi Landing light. OFF 1. Taxi Landing light. ON 2. Natiguality Turn: Compass & HIS Decrease / Increase in Hdg, A/H No Bank TSI Skidding Turn: CHECK in TURNS Left/Right Turn: Compass & HIS Decrease / Increase in Hdg, A/H No Bank TSI Skid	11	. BUS E VoltsMin 24 VOLTS	
14. St By Batt Annunciator SHOWN 15. Request START UP Call ATC 16. HEADSET REMOVE 17. Propeller Area CLEAR 18. Battery ON 19. Beacon Light ON 20. NAV Light ON 21. Fuel Selector Valve BOTH 22. Fuel Shut Off Valve Push Full IN 23. Alternate Air Door CLOSED 24. Thrust Lever Full & Free, IDLE 25. Load Display Check 0% at Prop Rpm 0 ENGINE START (BATTERY ONLY) 1. Thrust Lever IDLE 2. Area Aircraft / Prop CLEAR 3. Engine Master ON 4. Glow Light EXTINGUISHES 5. Fuel Pump ON 6. Starter ENGAGE(500RPM) 7. OIL Pressure within 3 Sec MIN 1 BAR 8. Fuel Pump OF 9. AMPS Batt M & Batt S CHECK +Ve 10. Volts Annunciator OF 11. LOW VOLTS Annunciator OF 12. FADEC backup Battery test a. Alt OFF ENG OP NORMAL b. Batt OFF 10 sec ENG OP NORMAL FADEC RED LIGHTS OFF c. Battery ON d. Alternator Warning light OFF 14. TEST COMPLETE 15. CED Test Knob PRESS, LIGHT OFF 16. Avionics BUS 1 & BUS 2 ON 17. Regulators SIDWA A SHAPS Batt M & Batt S CHECK +Ve 18. AMPS Batt M & Batt S CHECK +Ve 19. OR Alternator Warning light OFF 19. FADEC Lights BOTH ON, RPM INC 19. ALTERNATION ON 21. Taxi, Landing light ON 22. Altimeters (PFD Baro & St By) SET ONH 23. Landing light Turn :- Compass & HIS Decrease / Increase in Hdg, A/H No Bank TSI Skidding Turn TSI Skiddi			2. 1400 RPM IIIO1 30°C,C1 60°C
14. St By Batt Annunciator SHOWN 15. Request START UP Call ATC 16. HEADSET REMOVE 17. Propeller Area CLEAR 18. Battery ON 19. Beacon Light ON 20. NAV Light ON 21. Fuel Selector Valve BOTH 22. Fuel Shut Off Valve Push Full IN 23. Alternate Air Door CLOSED 24. Thrust Lever Full & Free, IDLE 25. Load Display Check 0% at Prop Rpm 0 ENGINE START (BATTERY ONLY) 1. Thrust Lever IDLE 2. Area Aircraft / Prop CLEAR 3. Engine Master ON 4. Glow Light EXTINGUISHES 5. Fuel Pump ON 6. Starter ENGAGE(500RPM) 7. OIL Pressure within 3 Sec MIN 1 BAR 8. Fuel Pump OF 9. AMPS Batt M & Batt S CHECK +Ve 10. Volts Annunciator OF 11. LOW VOLTS Annunciator OF 12. FADEC backup Battery test a. Alt OFF ENG OP NORMAL b. Batt OFF 10 sec ENG OP NORMAL FADEC RED LIGHTS OFF c. Battery ON d. Alternator Warning light OFF 14. TEST COMPLETE 15. CED Test Knob PRESS, LIGHT OFF 16. Avionics BUS 1 & BUS 2 ON 17. Regulators SIDWA A SHAPS Batt M & Batt S CHECK +Ve 18. AMPS Batt M & Batt S CHECK +Ve 19. OR Alternator Warning light OFF 19. FADEC Lights BOTH ON, RPM INC 19. ALTERNATION ON 21. Taxi, Landing light ON 22. Altimeters (PFD Baro & St By) SET ONH 23. Landing light Turn :- Compass & HIS Decrease / Increase in Hdg, A/H No Bank TSI Skidding Turn TSI Skiddi	13	. BATT S AmpsCHECK -Ve Amps	TAXI
15. Request START UP. Call ATC 16. HEADSET REMOVE 17. Propeller Area. CLEAR 18. Battery. ON 19. Beacon Light. ON 20. NAV Light. ON 21. Fuel Selector Valve. BOTH 22. Fuel Shut Off Valve. Push Full IN 23. Alternate Air Door. CLOSED 24. Thrust Lever. Full & Free, IDLE 25. Load Display. Check 0% at Prop Rpm 0 15. Trust Lever. IDLE 26. Area Aircraft / Prop CLEAR 36. Engine Master. ON 47. Glow Light. EXTINGUISHES 48. Fuel Pump. ON 49. Starter. ENGAGE(500RPM) 40. OX Leyen. ON 41. LOW VOLTS Annunciator. OFF 41. LOW VOLTS Annunciator. OFF 41. TADEC backup Battery test 42. Altimeters(PFD Baro & St By). SET ONH 44. Taxi, Landing light. ON 45. Left/Right Turn: Compass & HIS 47. Decrease / Increase in Hdg. A/H No Bank 45. Seat & Seat Belts. ERECT & CORRECT 46. Cabin Doors. CLOSED & LOCKED 47. Trimst Lever. Set By 48. AMPS Batt M & Batt S. CHECK + Ve 49. Starter. ENGAGE(500RPM) 40. OIL Pressure. within 3 Sec MIN 1 BAR 40. Starter. ENGAGE(500RPM) 41. Trim. SET for TAKE-OFF 41. FADEC backup Battery test 42. Altimeters(PFD Baro & St By). SET ONH 43. Chocks. WAIVE OFF 45. Taxi, Landing light. ON 46. Instruments. CHECK in TURNS 46. Instruments. CHECK in TURNS 47. Left/Right Turn: Compass & HIS 47. Decrease / Increase in Hdg. A/H No Bank 48. Fist Lever. IDLE 49. Parking Brakes. SET 40. Seat & Seat Belts. ERECT & CORRECT 40. Cabin Doors. CLOSED & LOCKED 41. Taxi, Landing light. OFF 41. Taxi, Landing light. OFF 42. Parking Brakes. SET 43. Seat & Seat Belts. ERECT & CORRECT 44. Cabin Doors. CLOSED & LOCKED 45. Fight Controls. FREE & CORRECT 46. Filight Instruments (PFD) No Red Xs 47. Altimeters(PFD Baro & St By). SET ONLY 48. Fuel Pump. ON 49. Glow ALT SEL Seat Belts. ERECT & CORRECT 40. Cabin Doors. CLOSED & LOCKED 41. Trim. SET for TAKE-OFF 41. Taxi, Landing light. OFF 42. Parking Brakes. SET 43. Seat & Seat Belts. ERECT & CORRECT 44. Cabin Doors. CLOSED & LOCKED 45. Fuel Pump. ON 46. Glow ALT SEL Seat Belts. ERECT & Correase / Increase in Hdg. A/H No Bank 45. Seat Belts. ERECT & CORRECT 46. Filight Instruments (PFD) No Red Xs 47.			1. Taxi PermissionRECEIVED
16. HEADSET. REMOVE 17. Propeller Area. CLEAR 18. Battery. ON 19. Beacon Light. ON 20. NAV Light. ON 21. Fuel Selector Valve. BOTH 22. Fuel Shut off Yalve. Push Full IN 23. Alternate Air Door. CLOSED 24. Thrust Lever. Full & Free, IDLE 25. Load Display Check 0% at Prop Rpm 0 16. Thrust Lever. IDLE 26. Area Aircraft / Prop. CLEAR 27. Area Aircraft / Prop. CLEAR 28. Engine Master. ON 29. MAV Light. EXTINGUISHES 29. Load Display Check 0% at Prop Rpm 0 20. Thrust Lever. IDLE 20. Area Aircraft / Prop. CLEAR 21. Glow Light. EXTINGUISHES 22. Fuel Pump. ON 23. Engine Master. ON 24. Glow Light. EXTINGUISHES 25. Fuel Pump. ON 26. Starter. ENGAGE(500RPM) 27. OIL Pressure. within 3 See MIN 1 BAR 28. Fuel Pump. OFF 29. AMPS Batt M & Batt S. CHECK +Ve 210. Volts. Batt OFF 10 see ENG OP NORMAL 28. Batt OFF 10 see ENG OP NORMAL 29. Battery. ON 20. Alternator ON 21. Alternator Warning light. OFF 21. FADEC Deackup Battery test 22. Area Aircraft / Prop CLEAR 23. Engine Master. ON 24. Glow Light. EXTINGUISHES 25. Fuel Pump. ON 26. Starter. ENGAGE(500RPM) 27. Altimeters (PFD Baro & St By). SET 28. Seat & Seat Belts. ERECT & CORRECT 29. Flight Controls. FREE & CORRECT 20. Flight Instruments (PFD). No Red Xs 20. Fuel Quantity (L & R). CHECK 20. Fuel Quantity (L & R). CHECK 21. FADEC Lights. BOTH ON, RPM INC 22. FADEC Light. ONLY A ON, RPM INC 23. Alternator Warning light. OFF 24. Taxi, Landing light. ONLY 25. BEFORE TAKE-OFF 26. Taxi, Landing light. OFF 27. Parking Brakes. SET 28. Seat & Sets Belts. ERECT & CORRECT 28. Fuel Pump. ON 29. Altimeters (PFD) Baro & St By). SET 29. Stand By Fit Instruments (PFD). No Red Xs 29. Stand By Fit Instruments (PFD). No Red Xs 29. Stand By Fit Instruments (PFD). No Red Xs 20. Fuel Quantity (L & R). CHECK 20. Fuel Quantity (L & R). CHECK 21. FADEC Lights. BOTH ON, RPM INC 21. FADEC Light. ONLY A ON, RPM INC 22. PROP Control Excited. RPM DEC 23. FADEC A. LIGHT OFF 24. Taxi, Landing light. ONLY 26. Taxi, Landing light. ONLY 27. Parking Brakes. SET 28. Seat & Sets Belts. ERECT & Correct Catholic			2. Altimeters(PFD Baro & St By)SET QNH
17. Propeller Area	16	. HEADSETREMOVE	3. ChocksWAIVE OFF
18. Battery	17	. Propeller Area	4. Taxi, Landing lightON
20. NAV Light. ON 21. Fuel Selector Valve	18	. Battery ON	
20. NAV Light. ON 21. Fuel Selector Valve	19	Beacon LightON	6. InstrumentsCHECK in TURNS
22. Fuel Shut Off Valve	20	. NAV LightON	Left/Right Turn :- Compass & HIS
23. Alternate Air Door	21	. Fuel Selector Valve BOTH	Decrease / Increase in Hdg, A/H No Bank
24. Thrust Lever			TSI Skidding Turn
25. Load DisplayCheck 0% at Prop Rpm 0 25. Load DisplayCheck 0% at Prop Rpm 0 ENGINE START (BATTERY ONLY) 1. Thrust Lever			DEFODE TAKE OFF
2. Parking Brakes			
Seat & Seat BeltsERECT & CORRECT 1. Thrust Lever	25	. Load DisplayCheck 0% at Prop Rpm 0	2. Parking Prokes. SET
1. Thrust Lever. IDLE 2. Area Aircraft / Prop			
2. Area Aircraft / Prop			
3. Engine Master			
4. Glow Light		<u>=</u>	<u> </u>
5. Fuel Pump			
6. Starter			• /
7. OIL Pressure	_		
8. Fuel Pump. OFF 9. AMPS Batt M & Batt SCHECK +Ve 10. VoltsGREEN 11. LOW VOLTS Annunciator. OFF 12. FADEC backup Battery test a. Alt OFFENG OP NORMAL b. Batt OFF 10 sec ENG OP NORMAL FADEC RED LIGHTS OFF c. BatteryON d. Alternator Warning light. OFF 14. TESTCOMPLETE 15. CED Test KnobPRESS, LIGHT OFF 16. Avionics BUS 1 & BUS 2ON 17. RegulatorsSET 18. AMPS Batt M & Batt SCHECK +Ve 10. VoltsOFF 12. TrimSET for TAKE-OFF FADEC & PROP Function Check 13. Thrust LeverIDLE 14. FADEC LightsBOTH OFF 15. FADEC Test buttonPRESS & HOLD 16. FADEC LightsBOTH ON, RPM INC 17. FADEC LightsBOTH ON, RPM INC 18. PROP Control ExcitedRPM DEC 19. FADEC LightONLY A ON, RPM INC 20. PROP Control ExcitedRPM DEC 21. FADEC ALIGHT OFF 22. RPM IdleTEST COMPLETE 23. FADEC ButtonRELEASE 24. Thrust Lever	_		
9. AMPS Batt M & Batt S			
FADEC & PROP Function Check 11. LOW VOLTS Annunciator	_	* A 700	
11. LOW VOLTS AnnunciatorOFF 12. FADEC backup Battery test a. Alt OFFENG OP NORMAL b. Batt OFF 10 sec ENG OP NORMAL FADEC RED LIGHTS OFF c. BatteryON d. AlternatorON 13. Alternator Warning lightOFF 14. TESTCOMPLETE 15. CED Test KnobPRESS, LIGHT OFF 16. Avionics BUS 1 & BUS 2ON 17. RegulatorsSET 18. AMPS Batt M & Batt SCHECK +Ve	- •		
12. FADEC backup Battery test a. Alt OFF			
a. Alt OFF		And a second sec	
b. Batt OFF 10 sec ENG OP NORMAL FADEC RED LIGHTS OFF c. Battery	12		
FADEC RED LIGHTS OFF c. Battery			
c. Battery			
d. Alternator			_
13. Alternator Warning lightOFF 14. TESTCOMPLETE 15. CED Test KnobPRESS, LIGHT OFF 16. Avionics BUS 1 & BUS 2ON 17. RegulatorsSET 18. AMPS Batt M & Batt SCHECK +Ve			
13. Alternator warming light OT 1 14. TEST	12		
15. CED Test KnobPRESS, LIGHT OFF 16. Avionics BUS 1 & BUS 2ON 17. RegulatorsSET 18. AMPS Batt M & Batt SCHECK +Ve 15. CED Test KnobPRESS, LIGHT OFF 22. RPM IdleTEST COMPLETE 23. FADEC ButtonRELEASE 24. Thrust LeverFULL 25. LOAD DISPLAYMIN 94% 26. RPM			
15. CED Test Kiloo			22. RPM IdleTEST COMPLETE
17. Regulators. SET 18. AMPS Batt M & Batt S. 24. Thrust Lever. FULL 25. LOAD DISPLAY. MIN 94% 26. RPM 2240 2300			23. FADEC ButtonRELEASE
18. AMPS Batt M & Batt SCHECK +Ve 25. LOAD DISPLAYMIN 94%			24. Thrust LeverFULL
24 DDM 2240 2200			25. LOAD DISPLAYMIN 94%
			26. RPM2240 – 2300



27. Thrust LeverIDLE28. Thrust Lever frictionADJUST29. VacuumGREEN30. Amps / VoltsGREEN31. EIS, CED, AEDGREEN32. AnnunciatorsAll OFF33. COMM 01 OnlyVOL 71%34. SPEAKEROFF35. NAV FrequenciesVERIFY36. G1000 FLT PLANCHECK37. CDI SoftkeySELECT NAV Source38. XPDR200039. Cabin Power 12V SwitchOFF40. Flaps(Check Visually)10°	CRUISE (Memory Item) C Compass Check Heading L LogMade E Engine - EIS, CED, AED Monitor Fuel Sufficient, Temp Check FADEC Lights Monitor A Altimeter Set Ammeters Charging Alternator Wx Lt OFF Annunciators OFF R Radios - Comm & Nav Freq SET
41. Cabin WindowsCLOSED & LOCKED	HASELL CHECKS (Memory Item)
42. Take-Off BriefCOMPLETE 43. Landing & Taxi lightsON	H Height - 5000 Ft(Sufficient for Recovery)
	A Airframe - Clean or Flaps - As Reqd
LINE UP (Memory Item)	S Security - No Loose Articles
 Line Up PermissionReceived Strobe LightsON 	- Seatbelts Secure
3. Approach Path & RunwayClear	E Engine - EIS, CED & AED GREEN
4. Windsock	FADEC Lights - Monitor
Enter Runway & Line Up, Nose Wheel straight	Fuel - Sufficient, temp & flow
& along the Centre Line.	L Location - Allotted Training Area
TAVE OFF (Management)	- Orientation Point
TAKE-OFF (Memory Item) 1. Take-Off PermissionReceived	L – LOOKOUT. Clear of
2. Departure BriefGiven	C – Clouds
3. Fuel PumpON	H – High Terrain
4. Landing lightON	A – Aircraft
5. Hold Aircraft on BrakesRPM 1800	P – Populated & Prohibited Area
6. EIS, CED & AEDGREEN	LOOKOUT Checks can be done in a 180° Turn
7. Alternator Wx lightOFF	OR in Two 90° Turns
8. Take-Off Path ClearRelease Brakes	
9. FULL POWER, 55 KtsGet Airborne	REJOIN CHECKS (Memory Item)
	B Briefing- Re-join briefing done
AFTER TAKE-OFF (Memory Item)	R Radio - Radio NAV Aids - SET
1. Safely AirborneBrakes ON & OFF	Rejoin Permission - Received
2. 200 Ft Electrical Fuel Pump, LLOFF	I Instruments - Altimeter & Baro -QNH Set
3. 300 Ft +Ve ROC, SP> 65 kts, Flaps UP	Ammeters - Charging
CLIMB (Memory Item)	Alt Wx Light - OFF
1. Speed80 Kts(V _y)	Annunciators - OFF
2. Thrust LeverFULL	E Engine - CED & AED – CHECK
3. CED & AEDGREEN	FADEC Lights - Monitor
4. Clearing TurnsEvery 1000ft	F Fuel - Contents, Temp & Flow
Closing rans	Selector - Both



PR	E- LANDING (Memory Item)	HAT Check		
1.	EIS, CED, AEDCHECK	Н	-	Heading
2.	FLT InstrumentsCheck QNH set			
3.	Flaps10°	\mathbf{A}	-	Altitude
4.	Fuel SelectorBoth			
5.	BrakesOn/Off	T	-	Timer
6.	Seat BeltsSecure			
		5T Check		
BA	SE or LONG FINAL(Memory Item)	T	-	Twist
1.	LL & Fuel pumpON			
2.	Flaps20°	T	-	Turn
3.	Speed75Kts			
		T	-	Timer
FII	NAL (Memory Item)			
1.	Landing ClearanceReceived	T	-	Thrust
2.	FlapsAs Required			
3.	Speed70Kts	T	-	Talk
A T.	TEED I ANDING (M	CHODAT		
	TER LANDING (Memory Item)	SHORAT		
1.	FlapsUP	N G		0.1 4 4444 1
2.	Fuel PumpOFF	S	-	Select Attitude
3.	XPDR	Но		Hold Attitude
4. 5	Thrust Lever FrictionLoosen	по	-	noid Attitude
5.	Tillust Level FiletionLoosen	R		Refer
FN	GINE SHUT DOWN	K	-	Performance Instruments
1.	GINE SHUT DOWN			i ci ioimanee msu uments
1.	Parking Brake SET			
	E			Adjust Attitude
2.	Thrust LeverIDLE	A	-	Adjust Attitude
2.3.	Thrust LeverIDLE Electrical EqptOFF	_	-	J
2.3.4.	Thrust Lever	A T	-	Adjust Attitude Trim
2. 3. 4. 5.	Thrust Lever. IDLE Electrical Eqpt. OFF Avionics BUS 1 & BUS 2 OFF Engine Master OFF	_	-	J
 2. 3. 4. 6. 	Thrust Lever. IDLE Electrical Eqpt. OFF Avionics BUS 1 & BUS 2 OFF Engine Master. OFF BATTERY Switch. OFF	_	-	J
2. 3. 4. 5.	Thrust Lever. IDLE Electrical Eqpt. OFF Avionics BUS 1 & BUS 2 OFF Engine Master OFF	_	-	J



	GINE FAILURE AFTER TAKE-OFF	7. Air Nozzles, Heat & VentOPEN
1	Airspeed65/60 Kts (flaps Up/Down)	8. Circuit Breaker
2.	Fuel Shut-off Valve	9. If OpenDO NOT RESET
3.	Engine MasterOFF	If the fire has been extinguished:
4.	Wing flapsAS REQUIRED	10. STBY BATT SwitchON
5.	Alternator and BatteryOFF	11. Avionics MasterON
<i>J</i> .	Antemator and Battery	12. Elect EquipmentON as reqd, 1 at a Time
EN	GINE FAILURE DURING FLIGHT	1 1 1 /
1.	Fuel Shut-off ValvePUSH FULL IN	ONE FADEC LIGHT FLASHING
2.	Fuel SelectorBOTH	1. FADEC Test knobPress at least 2 sec
3.	Electrical Fuel PumpON	2. FADEC lightExtinguished Continue
4.	Engine ParametersCHECK	Flight Normally
5.	_	3. FADEC lightSteady Illuminated
6.	LandAs soon as Practical	a. ObserveOther FADEC light
4		b. LandAs Soon As Practical
₫ RE	START AFTER ENGINE FAILURE	c. Select Speed to Avoid Eng Over Speed
1.	Airspeed 65 to 85 Kts (max 100 Kts)	
2.	Fuel Shut-off ValvePush Full In	BOTH FADEC LIGHT FLASHING
3.	Fuel SelectorBOTH	1. FADEC Test knob Press at least 2 sec
4.	Electrical Fuel PumpON	2. FADEC lightExtinguished Continue
5.	Thrust LeverIDLE	Flight Normally
6.	Flight can be continued, However	3. FADEC lightSteady Illuminated
7.	Engine MasterOFF and then ON	4. CheckAvailable Engine Power
8.	If prop does not turnStater ON	5. Expect Engine Failure
9.	Thrust FullCheck Engine Parameters	6. Flight can be continued, However
EN	ICINE FIDE WITH E CTADTING	a. Select Speed to avoid Eng Over Speedb. Land as soon as possible
	GINE FIRE WHILE STARTING	7. In case a tank has become empty
1. 2.	Engine MasterOFF Fuel Shut-off ValveCLOSED	a. Fuel selectorBOTH
3.	Electrical Fuel PumpOFF	
		b. Electrical Fuel PumbON
		b. Electrical Fuel PumpONc. Select Speed to avoid Eng Over Speed
4.	Batt MasterOFF	c. Select Speed to avoid Eng Over Speed
		c. Select Speed to avoid Eng Over Speedd. Check Engine parameters, Operate Throttle
4. 5.	Batt MasterOFF EXTINGUISH the FIRE	c. Select Speed to avoid Eng Over Speedd. Check Engine parameters, Operate Throttlee. If the engine acts normally, continue flight
4. 5. EN	Batt MasterOFF EXTINGUISH the FIRE IGINE FIRE IN FLIGHT	c. Select Speed to avoid Eng Over Speedd. Check Engine parameters, Operate Throttle
4. 5.	Batt MasterOFF EXTINGUISH the FIRE	c. Select Speed to avoid Eng Over Speedd. Check Engine parameters, Operate Throttlee. If the engine acts normally, continue flight
4. 5. EN 1.	Batt MasterOFF EXTINGUISH the FIRE IGINE FIRE IN FLIGHT Engine MasterOFF Fuel Shut-off ValveCLOSED	c. Select Speed to avoid Eng Over Speedd. Check Engine parameters, Operate Throttlee. If the engine acts normally, continue flight and land as soon as practical
4. 5. EN 1. 2.	Batt MasterOFF EXTINGUISH the FIRE IGINE FIRE IN FLIGHT Engine MasterOFF Fuel Shut-off ValveCLOSED Electrical Fuel PumpOFF	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC
4. 5. EN 1. 2. 3.	Batt MasterOFF EXTINGUISH the FIRE IGINE FIRE IN FLIGHT Engine MasterOFF Fuel Shut-off ValveCLOSED	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC Flight can be continued, However Land as
4. 5. EN 1. 2. 3. 4.	Batt Master	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC
4. 5. EN 1. 2. 3. 4. 5.	Batt Master	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC Flight can be continued, However Land as soon as practical
4. 5. EN 1. 2. 3. 4. 5. 6. 7.	Batt Master	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC Flight can be continued, However Land as soon as practical ENGINE SHUTDOWN IN FLIGHT
4. 5. EN 1. 2. 3. 4. 5. 6. 7. EL	Batt Master	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC Flight can be continued, However Land as soon as practical ENGINE SHUTDOWN IN FLIGHT Select Airspeed to avoid Engine Overspeed
4. 5. EN 1. 2. 3. 4. 5. 6. 7. EL 1.	Batt Master	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC Flight can be continued, However Land as soon as practical ENGINE SHUTDOWN IN FLIGHT Select Airspeed to avoid Engine Overspeed Glide
4. 5. EN 1. 2. 3. 4. 5. 6. 7. EL 1. 2.	Batt Master	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC Flight can be continued, However Land as soon as practical ENGINE SHUTDOWN IN FLIGHT Select Airspeed to avoid Engine Overspeed Glide
4. 5. EN 1. 2. 3. 4. 5. 6. 7. EL 1. 2. 3.	Batt Master	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC Flight can be continued, However Land as soon as practical ENGINE SHUTDOWN IN FLIGHT Select Airspeed to avoid Engine Overspeed Glide
4. 5. EN 1. 2. 3. 4. 5. 6. 7. EL 1. 2. 3. 4.	Batt Master	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC Flight can be continued, However Land as soon as practical ENGINE SHUTDOWN IN FLIGHT Select Airspeed to avoid Engine Overspeed Glide
4. 5. EN 1. 2. 3. 4. 5. 6. 7. EL 1. 2. 3.	Batt Master	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC Flight can be continued, However Land as soon as practical ENGINE SHUTDOWN IN FLIGHT Select Airspeed to avoid Engine Overspeed Glide
4. 5. EN 1. 2. 3. 4. 5. 6. 7. EL 1. 2. 3. 4.	Batt Master	 c. Select Speed to avoid Eng Over Speed d. Check Engine parameters, Operate Throttle e. If the engine acts normally, continue flight and land as soon as practical ABONORMAL ENGINE BEHAVIOR Select Speed to avoid Eng Over Speed "Force-B" switch, Select to B-FADEC Flight can be continued, However Land as soon as practical ENGINE SHUTDOWN IN FLIGHT Select Airspeed to avoid Engine Overspeed Glide



EMERGENCY LANDING with Eng out 1. Airspeed...65 / 60 Kts (flaps up / Down)

- 2. Fuel Shut-off Valve.....CLOSED
- 3. Engine Master.....OFF
- 4. Flaps.....AS REQUIRED
- 5. Alt & Batt......OFF
- 6. Cabin Doors-Unlock Before Touch-Down
- 7. Touch-down slightly nose up attitude
- 8. Brake.....FIRMLY

ALT WX LIGHT ON OR AMPS -VE > 5 MIN, ENGINE OPERATION NORMAL

- 1. Amps......CHECK
- 2. Alternator......CHECK ON
- 3. Battery.....CHECK ON
- 4. Elect load REDUCE IMMEDIATELY
- 5. Land as soon as practical

TOTAL ELECTRICAL FAILURE

- 1. Alternator.....CHECK ON
- 2. Battery......CHECK ON
- 3. Land as soon as possible
- 4. Be prepared for an emergency landing
- 5. Expect an engine failure

ROUGH ENGINE OR LOSS OF POWER

- 1. Thrust Lever......FULL FORWARD
- 2. Fuel Selector.....BOTH
- 3. Electrical Fuel Pump......ON4. Airspeed......65-85 Kts, (max100 Kts)
- 5. Engine Parameters......CHECK
- 6. If normal engine power not achieved : Land as soon as possible

LIGHT "WATER LEVEL" ON

- 1. Increase airspeed and reduce power
- 2. "CT" check and observe
- 3. "OT" check and observe
- 4. If CT and/or OT rise into yellow or red range, Land as soon as practical

OIL PRESSURE "OP" LOW (< 2.3 IN CRUISE OR < 1.2 BAR AT IDLE)

- 1. Reduce power
- Check oil temp "OT": If high or near op limits, Land as soon as possible
 If in a climb, Increase speed, reduce angle of climb
- 3. If OT approaches red range, Reduce power

OIL TEMP "OT" TOO HIGH (IN RED)

- 1. Increase airspeed and reduce power
- 2. Check OP: if lower than normal(< 2.3 in cruise or < 1.2 at idle), Land as soon as possible
- 3. If OP in normal range: Land as soon as practical

COOLANT TEMP "CT" TOO HIGH (RED)

- 1. Increase airspeed and reduce power
- 2. Cabin Heat.....COLD
- 3. If CT reduces to normal operating range quickly, continue to fly normally and observe CT
- 4. If CT does not drop, Land as soon as practical

GEARBOX TEMP "GT" HIGH (RED)

- 1. Reduce power 55% 75%
- 2. Land as soon as practical

FUEL TEMP TOO HIGH (RED RANGE)

- 1. Switch to fuel tank with lower fuel temp, if this contains sufficient fuel
- 2. Reduce engine power, if possible
- 3. If fuel temperature remains in Red, land as soon as possible

PROPELLER RPM TOO HIGH

Prop RPM 2400 to 2500 > 10 Sec or > 2500:

- 1. Reduce power
- 2. Reduce airspeed below 100 KIAS or as appropriate to prevent propeller overspeed
- 3. Set power as required to maintain altitude and land as soon as practical
- 4. If reqd, Climb at 65 Kts, 100% power